Earthquake Engineering Research Program
Field Review Group Meeting

Geotechnical and Structures Laboratory
Engineer Research & Development Center
US Army Corps of Engineers
Vicksburg, MS

20 June 2001

AGENDA

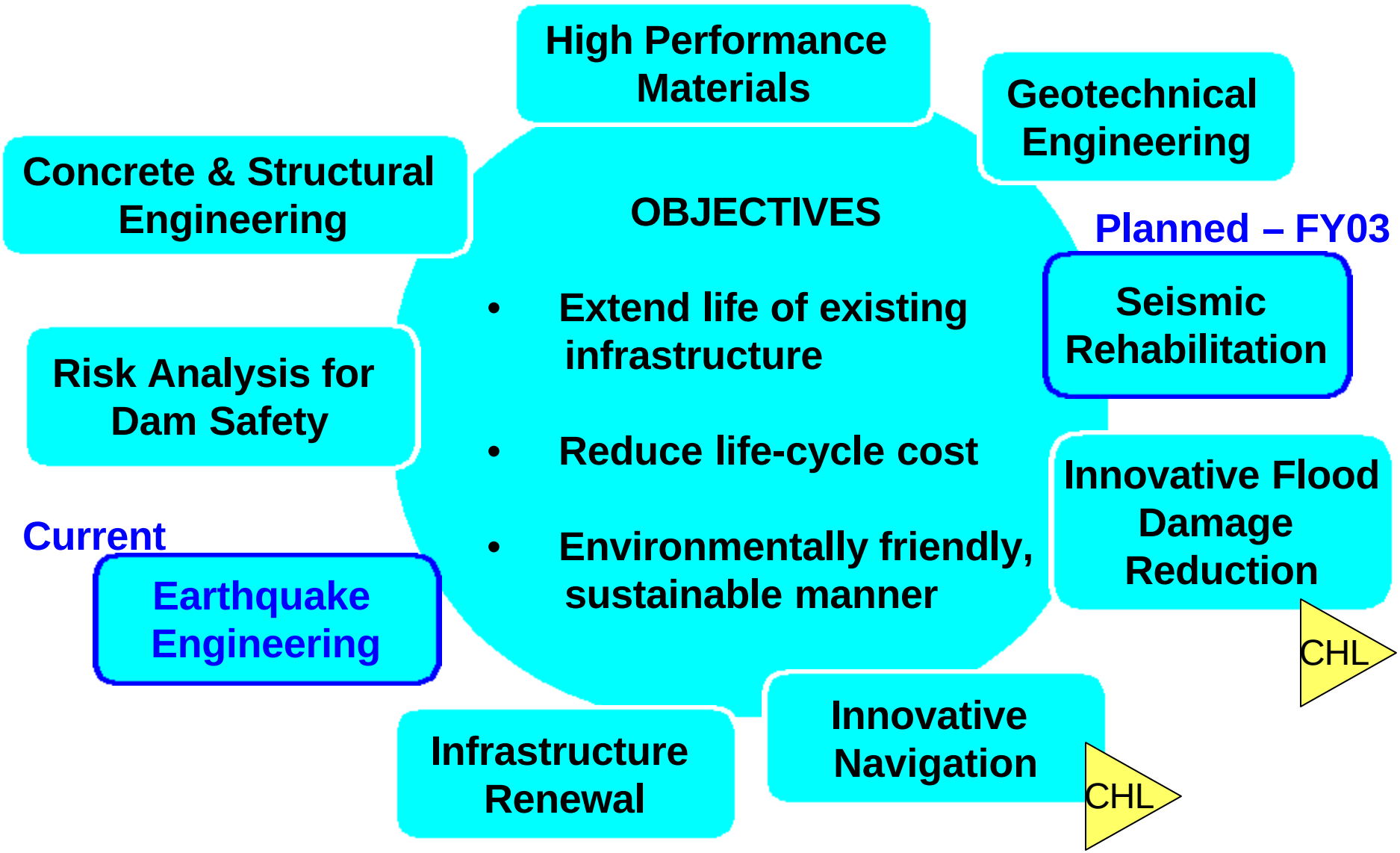
Earthquake Engineering Research Program Review

20 June 2001

Centrifuge Conference Room, Building 3398
Centrifuge Research Center
Geotechnical and Structures Laboratory
US Army Engineer Research & Development Center
3909 Halls Ferry Rd., Vicksburg MS 39180

TIME	TOPIC	PRESENTER
8:00 - 8:15	Welcome, Introduction	Don Yule
8:15 - 8:45	HQ Comments	Tony Liu
8:45 - 9:15	Infrastructure Research Framework	Mary Ellen Hynes
9:15 - 9:45	Program Overview	Don Yule / Robert Hall
9:45 - 10:15	BREAK	
10:15 - 11:00	Intake Towers and Ductility of Outlet Works	Richard Dove
11:00 - 11:30	Cantilever Retaining Walls	Robert Ebeling
11:30 - 12:00	Conventional Concrete Dams	Enrique Matheu
12:00 - 13:00	LUNCH	
13:00 - 13:30	Geophysical Methods for Site Investigation	Bob Ballard
13:30 - 14:00	Design Earthquake Ground Motions	Don Yule
14:00 - 15:00	Behavior of Liquefying Soils Remedial Measures	Mike Sharp
15:00 - 15:15	BREAK	
15:15 - 15:45	Dynamic Analysis of Embankment Dams	John Peters
15:45 -	Future of Earthquake Engineering Research EQENII Workshop FOC's Seismic Remediation	Mary Ellen Hynes / Don Yule
17:00	Meeting adjourns	

Civil Works Infrastructure & Geosciences Program



Web Pages


Earthquake Engineering Research Program - Microsoft Internet Explorer
Earthquake Engineering Research Program
EQEN
SUMMARY
RESEARCH
SOFTWARE
NEWS
CONTACTS
EQEN II
INFRASTRUCTURE
The objective of the Earthquake Engineering Research Program is to reduce damage from a potentially devastating earthquake by advancing state-of-the-art knowledge of earthquake hazard assessment, seismic design, and remediation of Corps infrastructure, and by developing technical capabilities to improve rapid Corps response to earthquake-induced life-threatening emergencies.
In spite of major advances over the last 25 years, serious gaps still exist in the areas of earthquake hazard predictions, site characterization for seismically sensitive parameters, constitutive behavior and material properties of rock, soils, and composite (reinforced) materials under seismic loads, and the stress and deformation responses of sites and facilities to seismic loading. Economical remediation and defensive design techniques are needed, in addition to careful calibration of fast advancing numerical methods to actual field performance. In order to address these issues, the Army Corps of Engineers is funding a consistent Earthquake Engineering Research Program (EQEN) which will produce design tools and criteria to incorporate innovative measures for increasing the seismic safety of Corps and other public facilities.
Research areas have been prioritized and are being studied within funding constraints to improve hazard assessment, ground response prediction, seismic design and remediation techniques; to assemble a database of relevant information for assessing site behavior under seismic excitation; to advance in situ and laboratory testing technology; to develop constitutive models for seismic deformation behavior of these materials; to develop efficient numerical techniques to compute seismically-induced stresses and movements and calibrate these techniques to field performance; to develop economical remediation techniques for existing Corps infrastructure.
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ERDC
Geotechnical Laboratory
Geotechnical, Earthquake, & Geosciences Division
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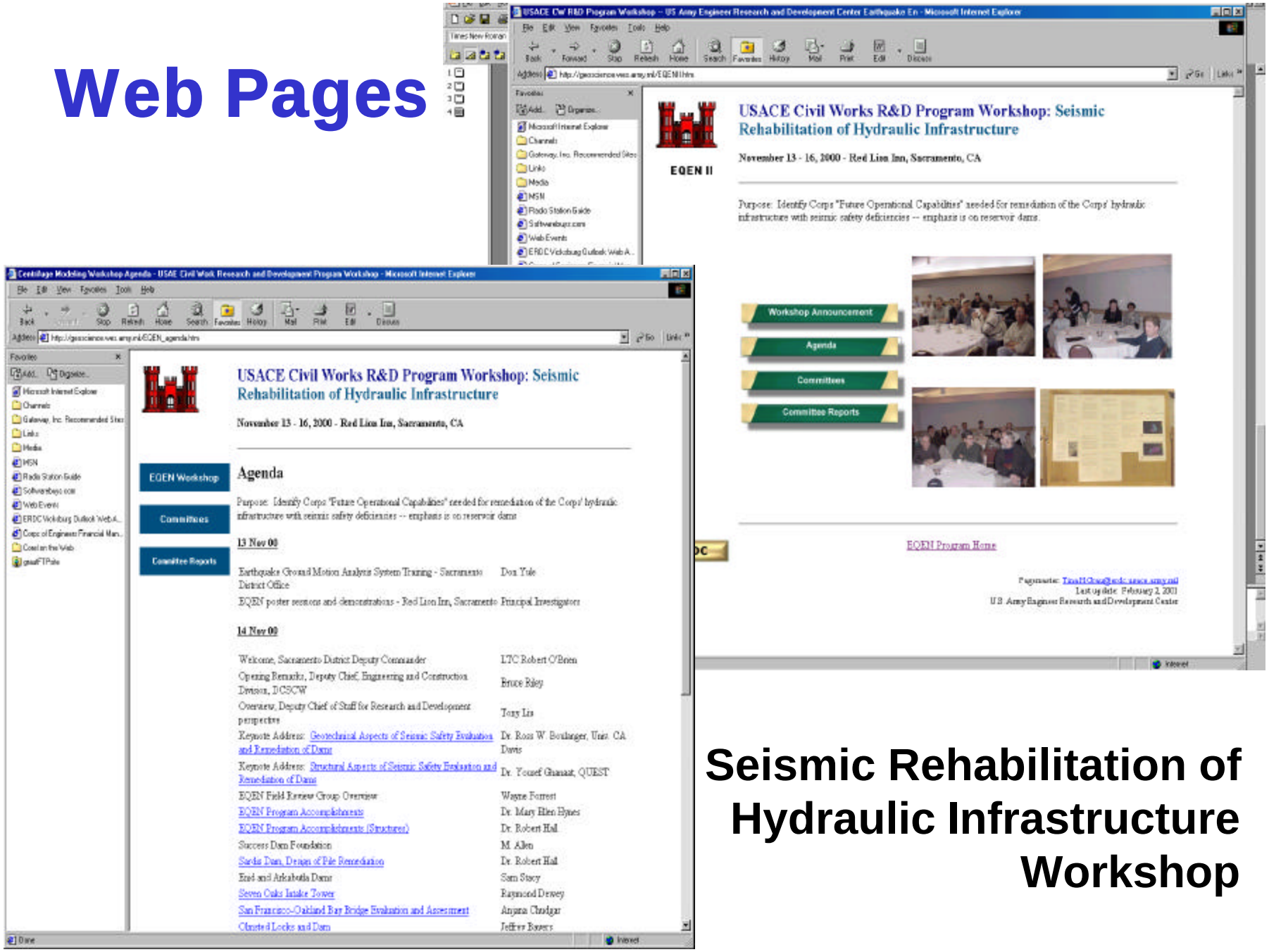
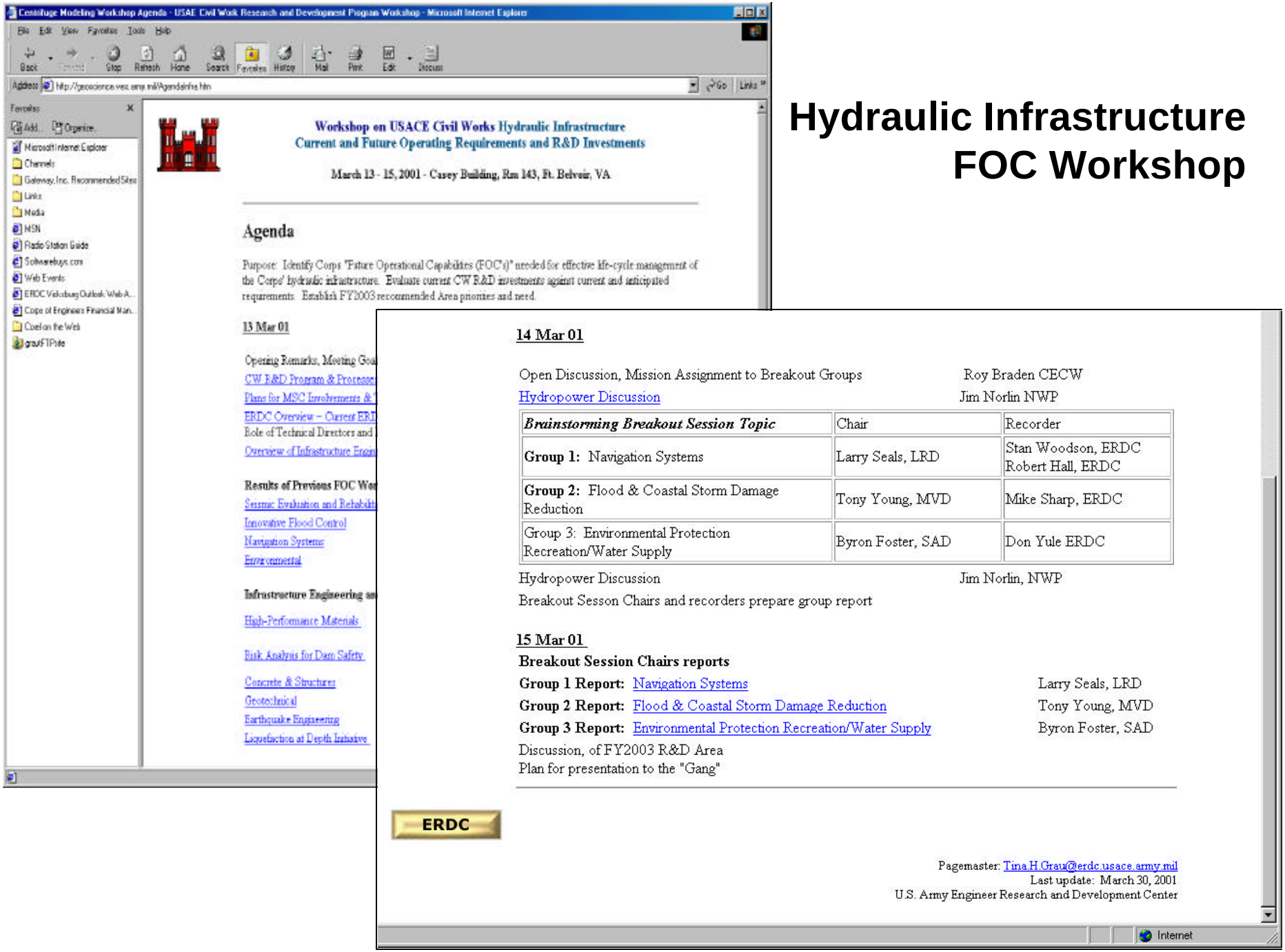
Web Pages



Seismic Rehabilitation of Hydraulic Infrastructure Workshop

Hydraulic Infrastructure FOC Workshop



Workshop on USACE Civil Works Hydraulic Infrastructure
Current and Future Operating Requirements and R&D Investments

March 13 - 15, 2001 - Casey Building, Rm 143, Ft. Belvoir, VA

Agenda

Purpose: Identify Corps "Future Operational Capabilities (FOC's)" needed for effective life-cycle management of the Corps' hydraulic infrastructure. Evaluate current CW R&D investments against current and anticipated requirements. Establish FY2003 recommended Area priorities and need.

13 Mar 01

Opening Remarks, Meeting Goa
CW R&D Program & Processe
Plans for MSC Involvements &
ERDC Overview – Current ERI
Role of Technical Directors and
Overview of Infrastructure Engin

Results of Previous FOC Wo
Seismic Evaluation and Rehabilit
Innovative Flood Control
Navigation Systems
Environmental

Infrastructure Engineering a
High-Performance Materials
Risk Analysis for Dam Safety
Concrete & Structures
Geotechnical
Earthquake Engineering
Liquefaction at Depth Initiative

14 Mar 01

Open Discussion, Mission Assignment to Breakout Groups		Roy Braden CECW
Hydropower Discussion		Jim Norlin NWP
Brainstorming Breakout Session Topic	Chair	Recorder
Group 1: Navigation Systems	Larry Seals, LRD	Stan Woodson, ERDC Robert Hall, ERDC
Group 2: Flood & Coastal Storm Damage Reduction	Tony Young, MVD	Mike Sharp, ERDC
Group 3: Environmental Protection Recreation/Water Supply	Byron Foster, SAD	Don Yule ERDC
Hydropower Discussion		Jim Norlin, NWP
Breakout Sesson Chairs and recorders prepare group report		

15 Mar 01

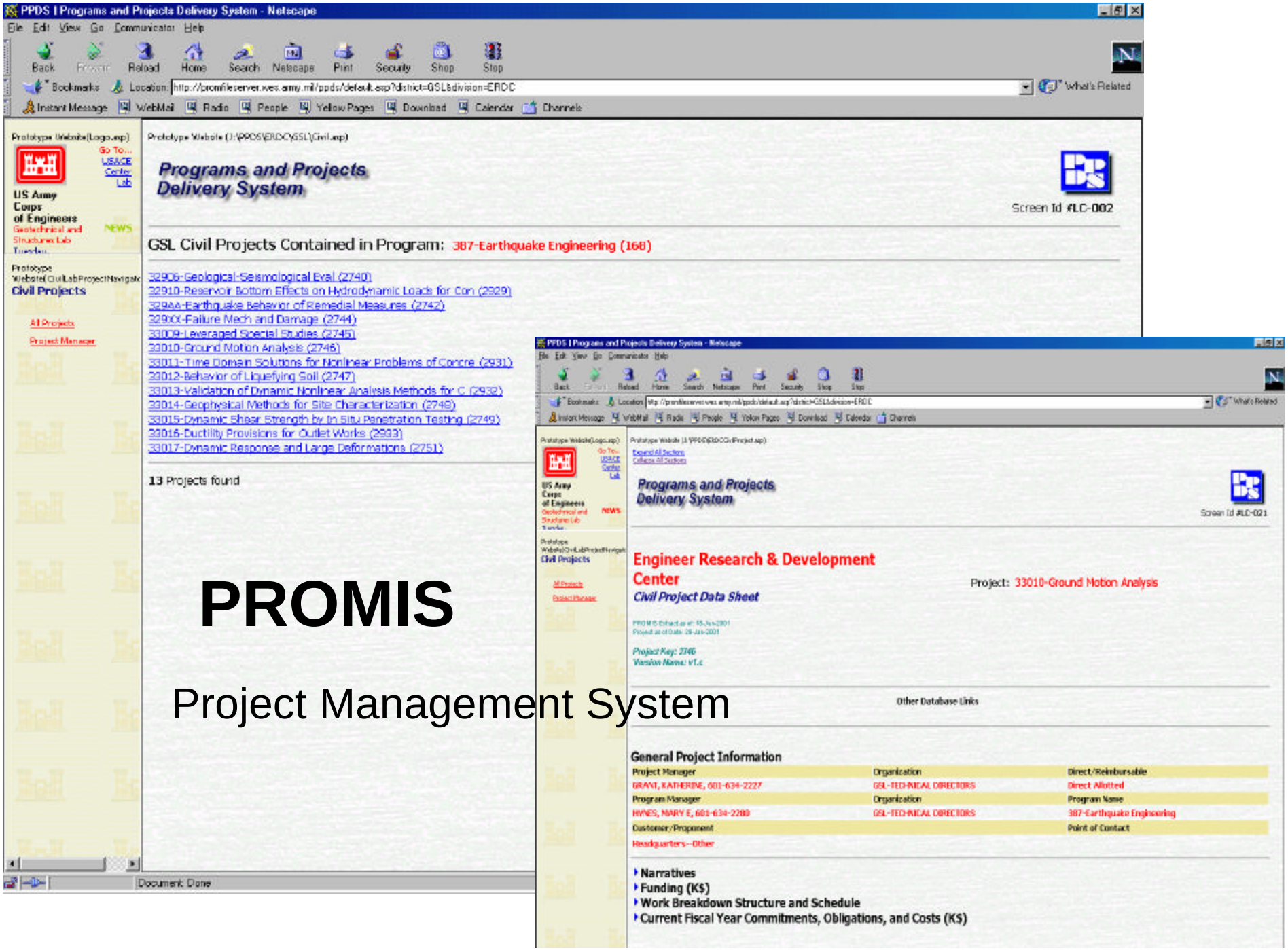
Breakout Session Chairs reports

Group 1 Report:	Navigation Systems	Larry Seals, LRD
Group 2 Report:	Flood & Coastal Storm Damage Reduction	Tony Young, MVD
Group 3 Report:	Environmental Protection Recreation/Water Supply	Byron Foster, SAD

Discussion, of FY2003 R&D Area
Plan for presentation to the "Gang"

ERDC

Pagemaster: Tina.H.Grau@erdc.usace.army.mil
Last update: March 30, 2001
U.S. Army Engineer Research and Development Center

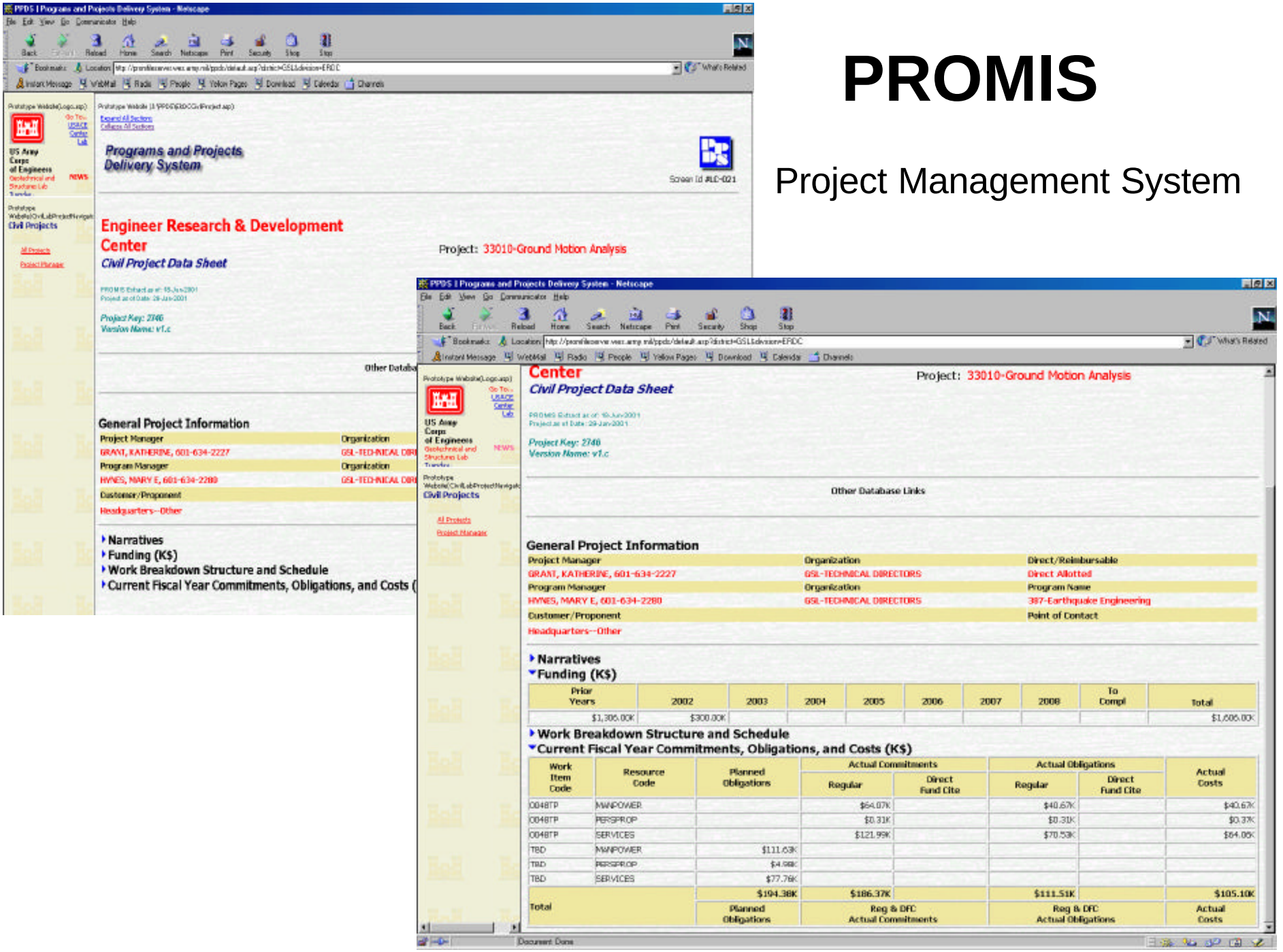


PROMIS

Project Management System

PROMIS

Project Management System



Programmatic Issues

- 1 year until program ends
- Direction is set
- Deliver products within reach
- Address priorities
- Future of earthquake engineering research